

## CLAIMS:

1. A stabilized flame retardant composition comprising:  
at least one of a polymer resin;  
about 5 to 300 parts by weight of a hydrated metal compound per 100 parts by  
5 weight of said polymer resin;  
an effective stabilizing amount of a synergistic mixture of:  
a) a first stabilizer comprising at least one compound selected from the  
group consisting of: amine oxide stabilizers, hydroxylamine stabilizers, nitron  
stabilizers, nitroxyl stabilizers, benzofuranone stabilizers; quinone methide  
10 stabilizers, and monoacrylate esters of 2,2'-alkylidenebisphenol stabilizers;  
and  
b) a second stabilizer comprising at least one compound selected from the  
group consisting of phosphite and phosphonite stabilizers.
- 15 2. The stabilized flame retardant composition of claim 1, wherein said hydrated  
metal compound is a metal hydrates or metal oxide.
3. The stabilized flame retardant composition of claim 1, wherein said metal  
hydroxide is selected from magnesium hydroxide and aluminum hydroxide.  
20
4. The stabilized flame retardant composition of claim 3, wherein said polymer  
resin is one of a polypropylene, polyethylene, Polypropylene blends, e.g.  
thermoplastic olefin (TPO), thermoplastic elastomer (TPE).
- 25 5. The stabilized flame retardant composition of claim 1, wherein said first  
stabilizer additive is an amine oxide.
6. The stabilized flame retardant composition of claim 1, wherein said first  
stabilizer additive is a hydroxyl amine.

30

7. The stabilized flame retardant composition of claim 3, containing at least 5 parts by weight of a magnesium hydroxide per 100 parts by weight of a polypropylene.
- 5 8. A process for the stabilization of a composition comprising at least a polymer resin and about 1 to 100 parts by weight of a hydrated metal compound per 100 parts by weight of said polymer resin, said process comprising adding to a polymer resin composition an effective stabilizing amount of a stabilizer additive selected from one of an amine oxide or a hydroxyl amine.
- 10 9. The process of claim 8, wherein said hydrated metal compound is a metal hydroxide.
10. The process of claim 8, wherein said a metal hydroxide is selected from  
15 magnesium hydroxide and aluminum hydroxide.
11. The process of claim 8, wherein said polymer resin is a polyolefin.
12. A process for forming articles having improved melt stability and color  
20 stability, said process comprising the steps of:
  - a) melt blending a composition comprising:
    - at least one of a polymeric resin;
    - about 1 to 100 parts by weight of a hydrated metal compound per 100 parts by  
weight of said polymeric resin; and
    - 25 an effective stabilizing amount of a synergistic mixture of a first stabilizer additive selected from one of an amine oxide or a hydroxyl amine and a second stabilizer additive selected from one of a phosphite or phosphonite stabilizer;
  - b) forming shaped articles thereof from said blend.
- 30 13. Articles comprising the composition of claim 1.

14. The process of claim 12, wherein said polymeric resin is one of a polypropylene, polyethylene, or polypropylene blends.
15. The process of claim 12, wherein said hydrated metal compound is a metal hydrates or metal oxide.
16. The process of claim 12, wherein said stabilizer additive is a hydroxyl amine.
17. The stabilized flame retardant composition of claim 3, containing at least 5 parts by weight of a magnesium hydroxide per 100 parts by weight of a polypropylene.
18. The stabilized flame retardant composition of claim 1, further comprising at least one of an alkaline metal oxide, an alkali metal salt, and an alkaline earth metal.
19. The stabilized flame retardant composition of claim 18, further comprising a calcium carbonate.